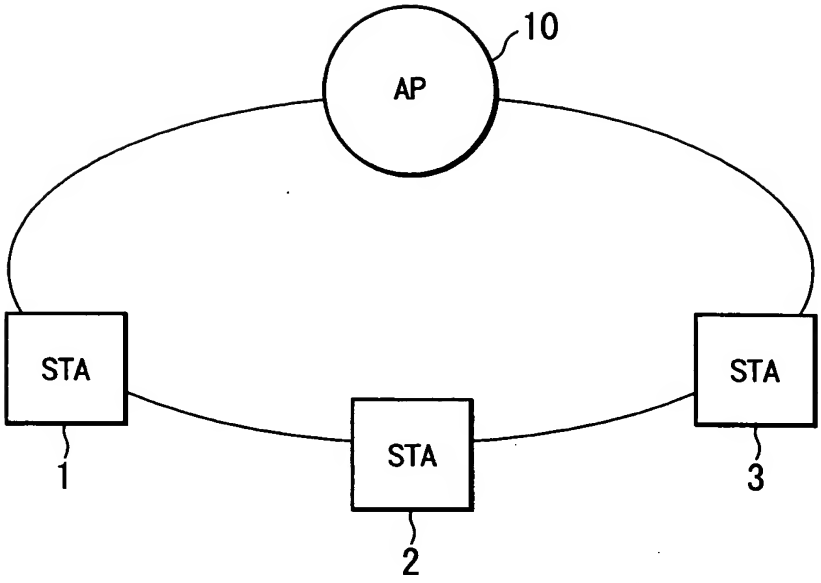
10
AP
STA
STA
STA
1
2
3

FIG. 1

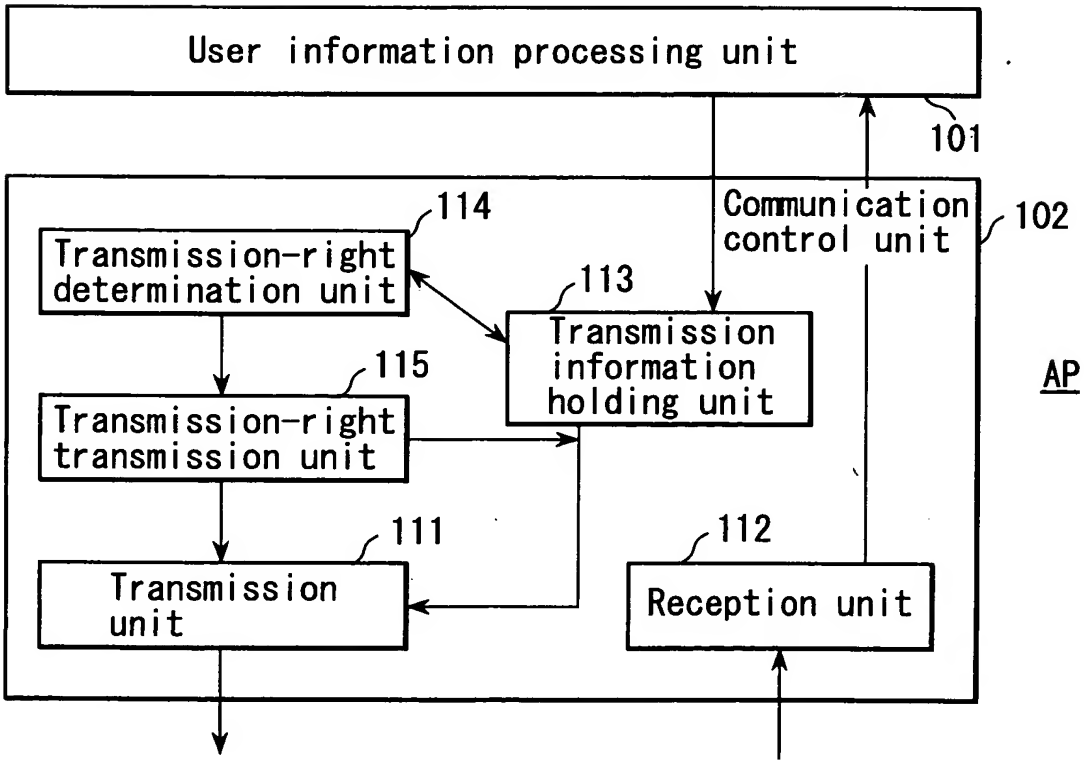
User information processing unit
101
Communication control unit
102
114
Transmission-right determination unit
113
Transmission information holding unit
115
Transmission-right transmission unit
111
Transmission unit
112
Reception unit
AP

FIG. 2

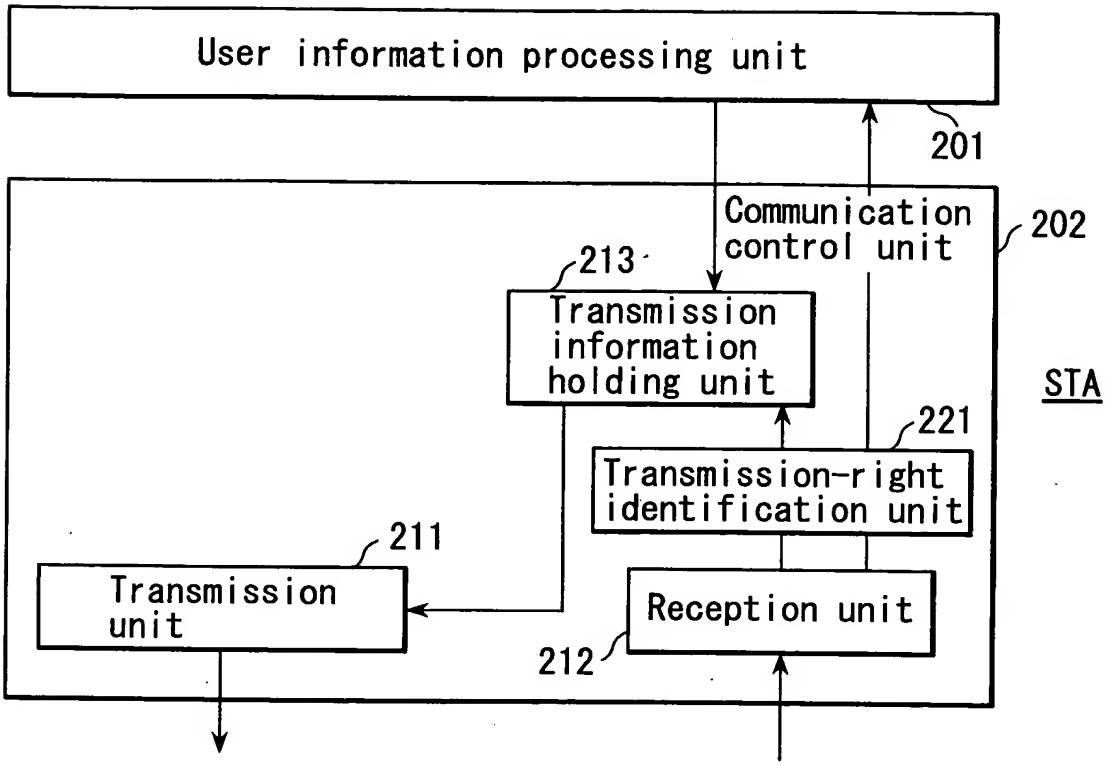
User information processing unit
201
Communication control unit
202
213
Transmission information holding unit
STA
221
Transmission-right identification unit
211
Transmission unit
Reception unit
212

FIG. 3

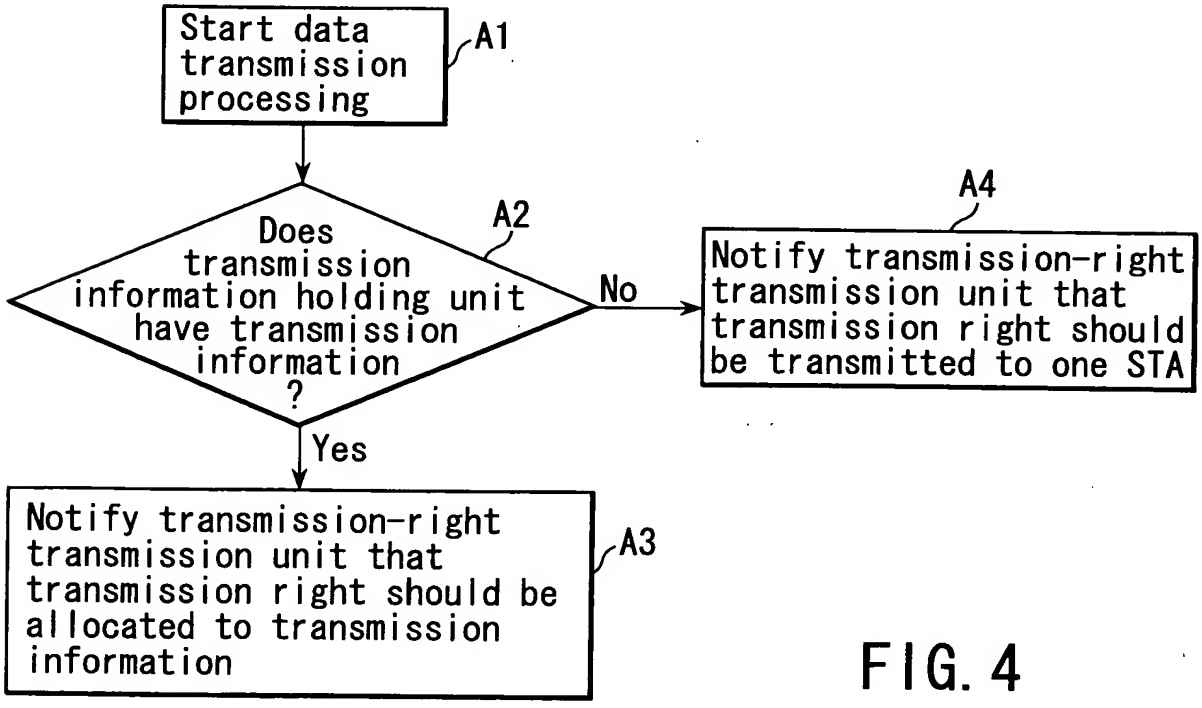
Start data transmission processing
A1
Does transmission information holding unit have transmission information ?
A2
No
A4
Notify transmission-right transmission unit that transmission right should be transmitted to one STA
Yes
Notify transmission-right transmission unit that transmission right should be allocated to transmission information
A3

FIG. 4

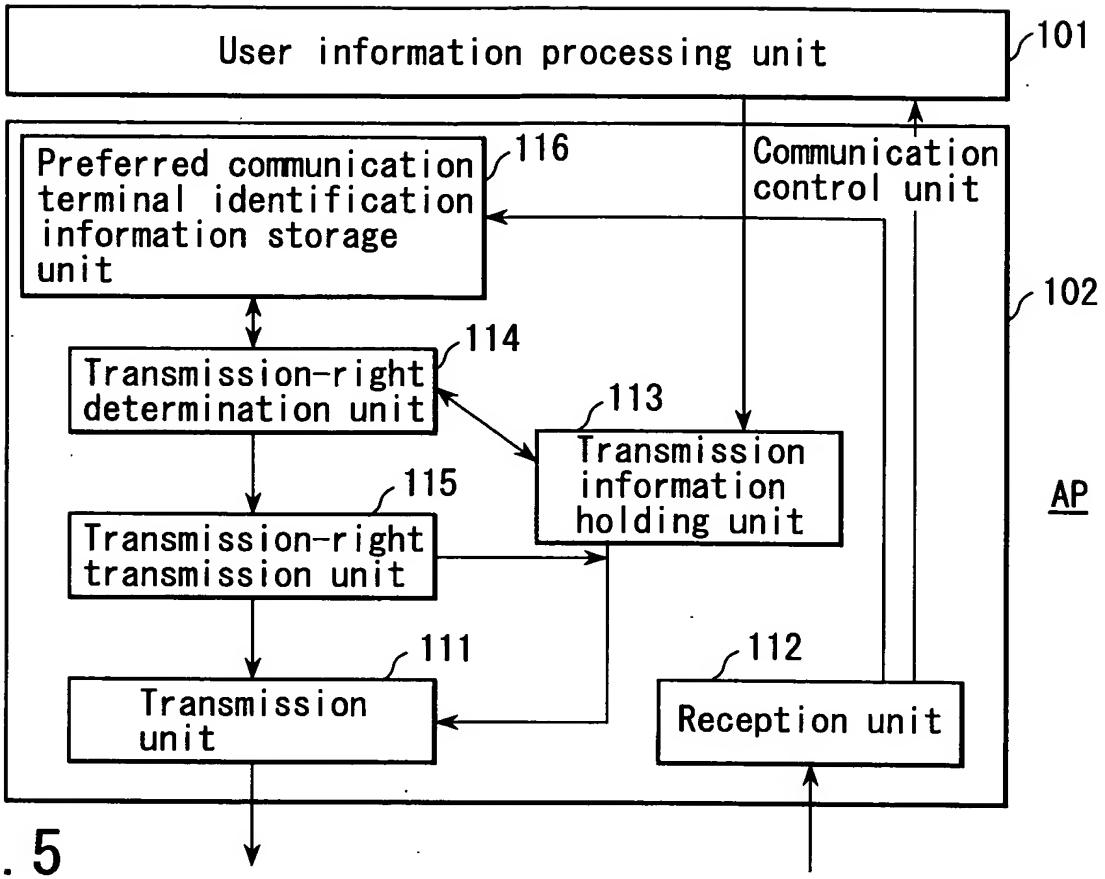
User information processing unit
101
Preferred communication terminal identification information storage unit
116
Communication control unit
102
Transmission-right determination unit
114
Transmission information holding unit
113
AP
Transmission-right transmission unit
115
Transmission unit
111
Reception unit
112

FIG. 5

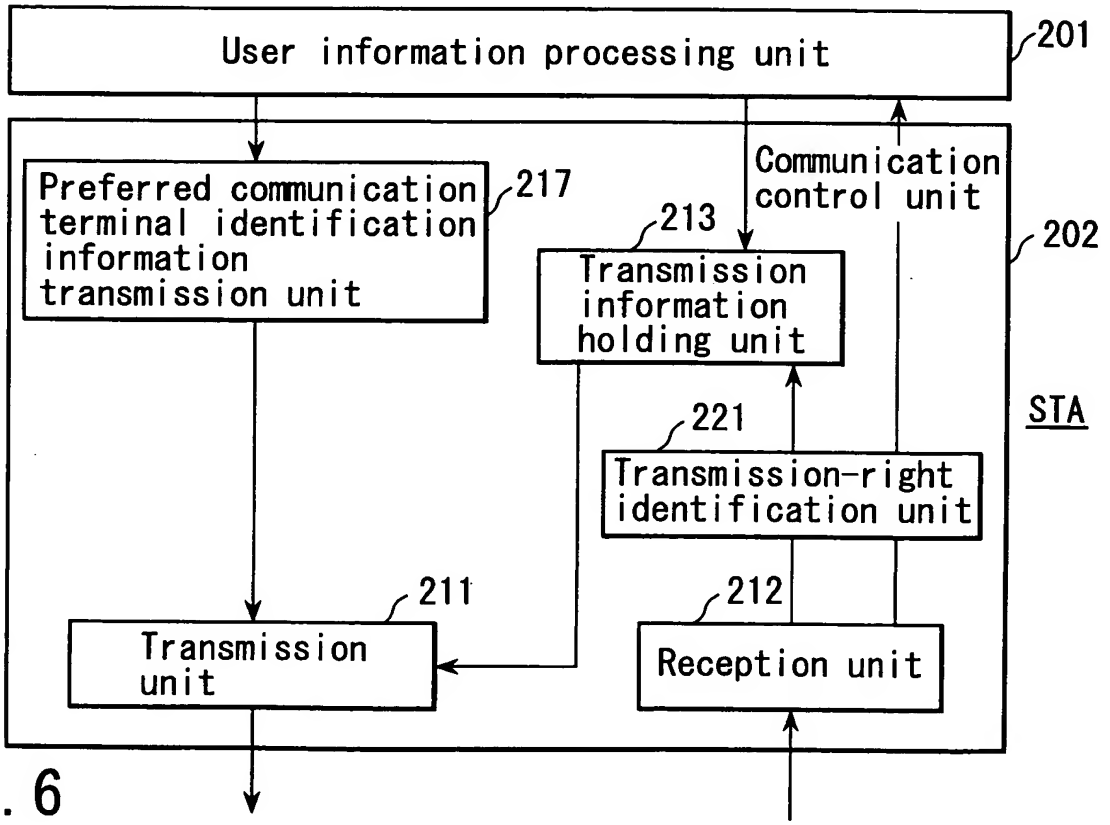
User information processing unit
201
Preferred communication terminal identification information transmission unit
217
Communication control unit
202
Transmission information holding unit
213
STA
Transmission-right identification unit
221
Transmission unit
211
Reception unit
212

FIG. 6

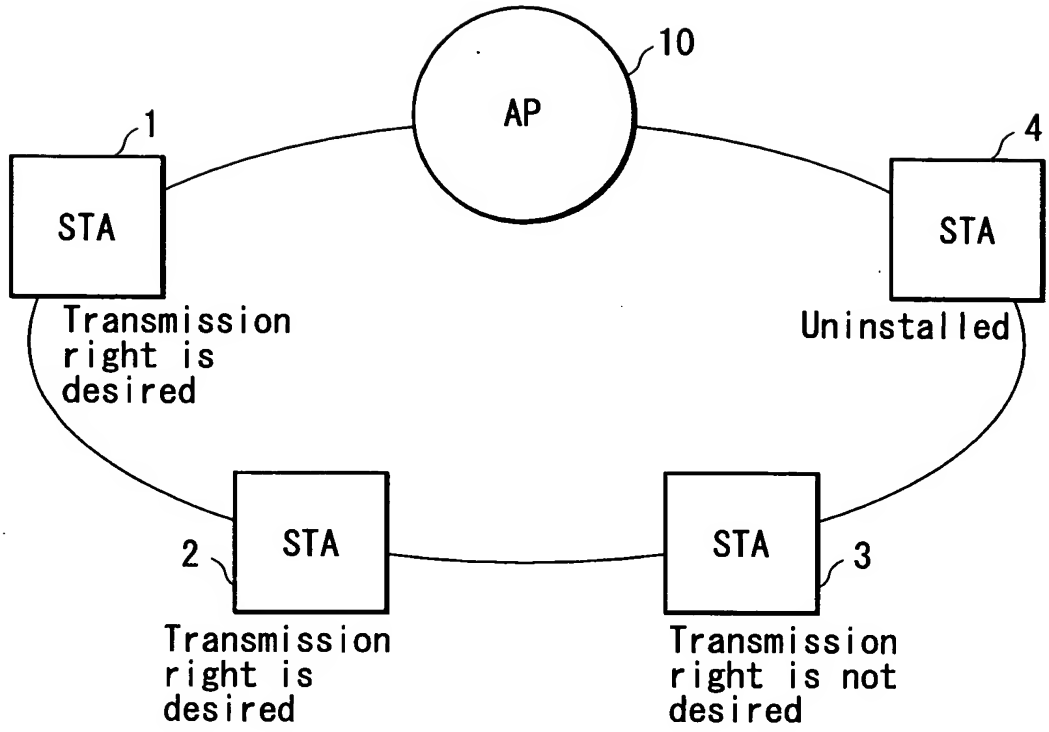

FIG. 7

Terminal identifier	Transmission right status
STA1	Desired
STA2	Desired
STA3	Not desired

FIG. 8

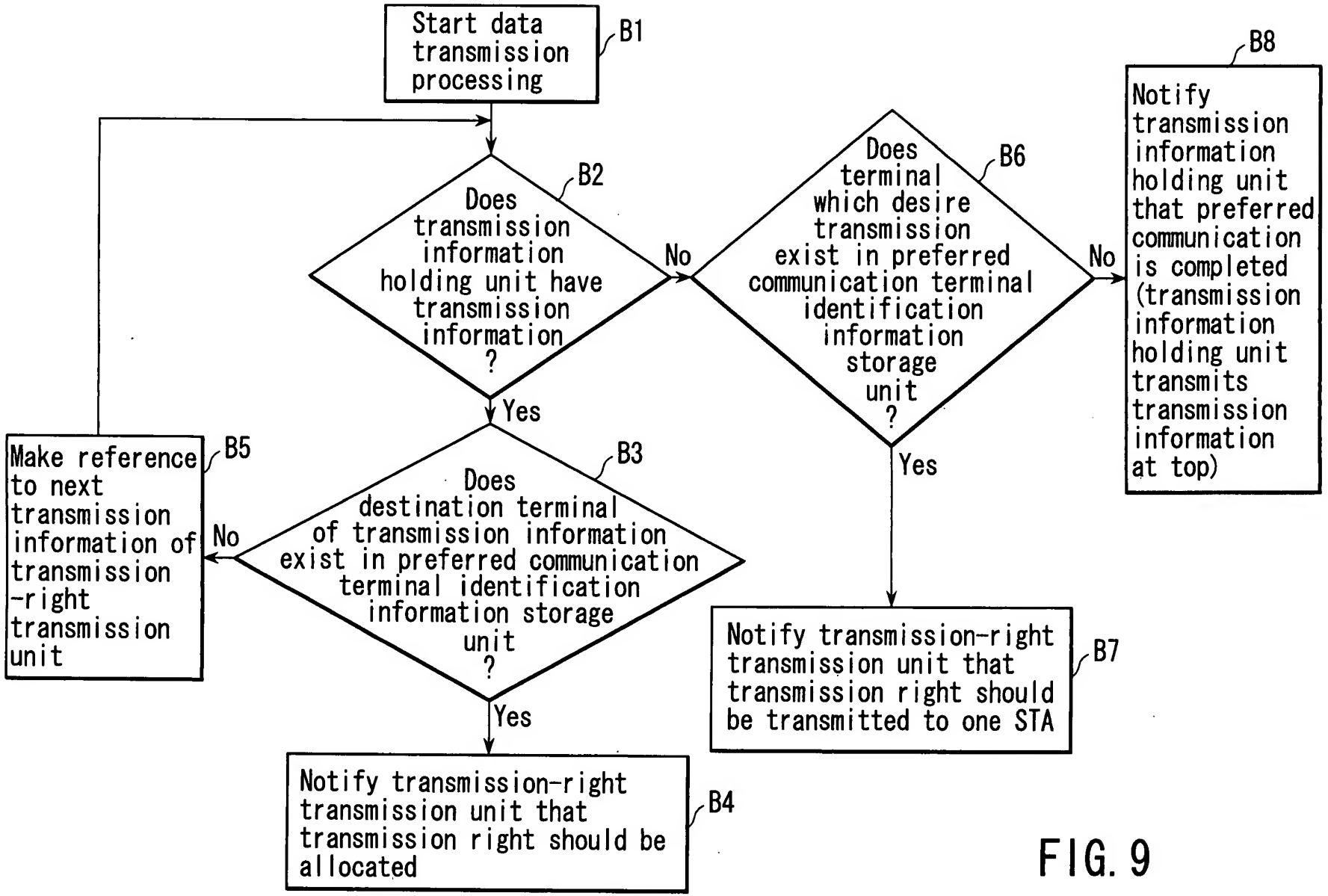
Start data transmission processing
B1
Does transmission information holding unit have transmission information ?
B2
No
Yes
Does terminal which desire transmission exist in preferred communication terminal identification information storage unit ?
B6
No
Yes
Notify transmission information holding unit that preferred communication is completed (transmission information holding unit transmits transmission information at top)
B8
Does destination terminal of transmission information exist in preferred communication terminal identification information storage unit ?
B3
No
Yes
Make reference to next transmission information of transmission -right transmission unit
B5
Notify transmission-right transmission unit that transmission right should be allocated
B4
Notify transmission-right transmission unit that transmission right should be transmitted to one STA
B7

FIG. 9

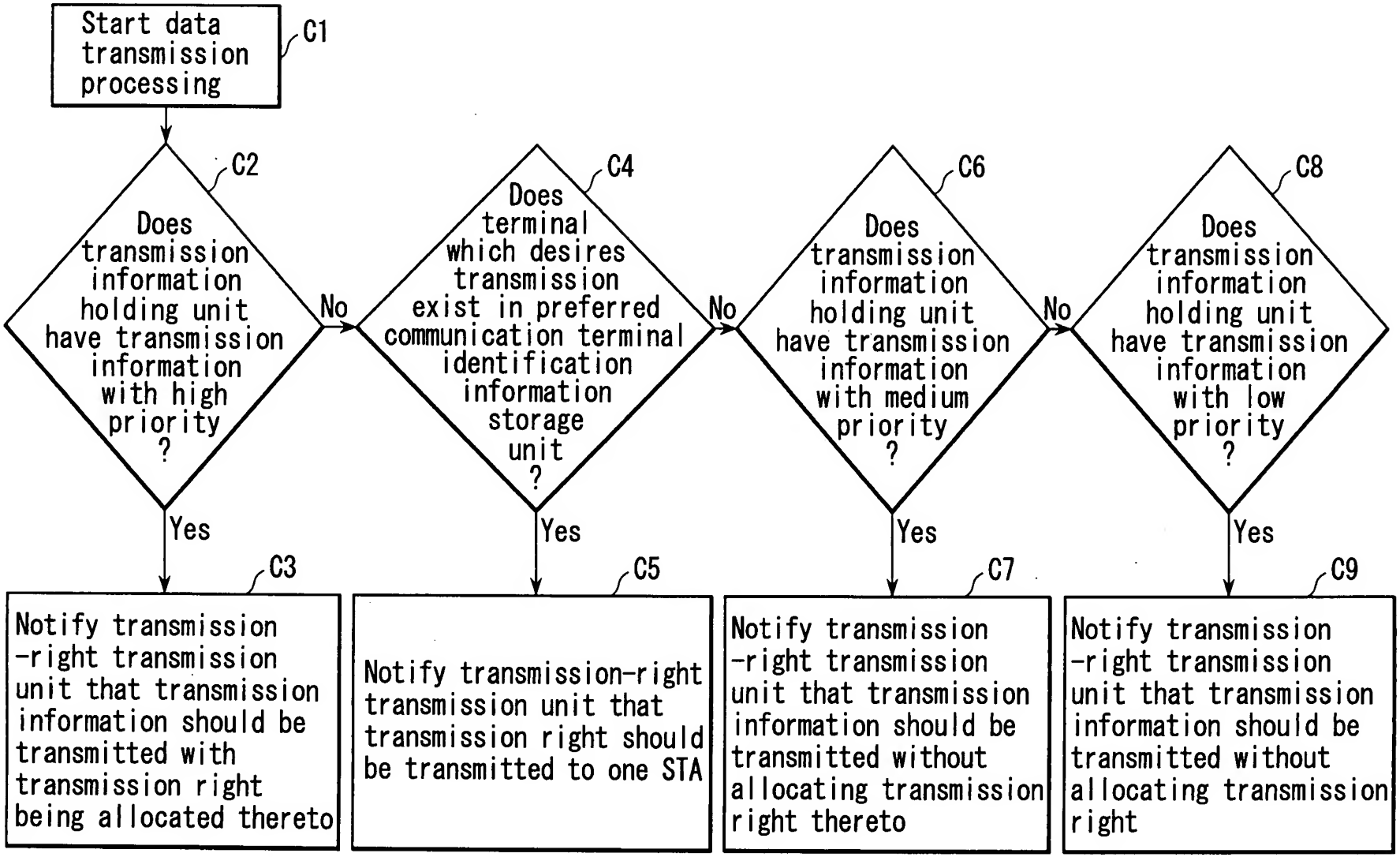
Start data transmission processing
C1
Does transmission information holding unit have transmission information with high priority ?
C2
No
Yes
C3
Notify transmission -right transmission unit that transmission information should be transmitted with transmission right being allocated thereto
Does terminal which desires transmission exist in preferred communication terminal identification information storage unit ?
C4
No
Yes
C5
Notify transmission-right transmission unit that transmission right should be transmitted to one STA
Does transmission information holding unit have transmission information with medium priority ?
C6
No
Yes
C7
Notify transmission -right transmission unit that transmission information should be transmitted without allocating transmission right thereto
Does transmission information holding unit have transmission information with low priority ?
C8
Yes
C9
Notify transmission -right transmission unit that transmission information should be transmitted without allocating transmission right

FIG. 10

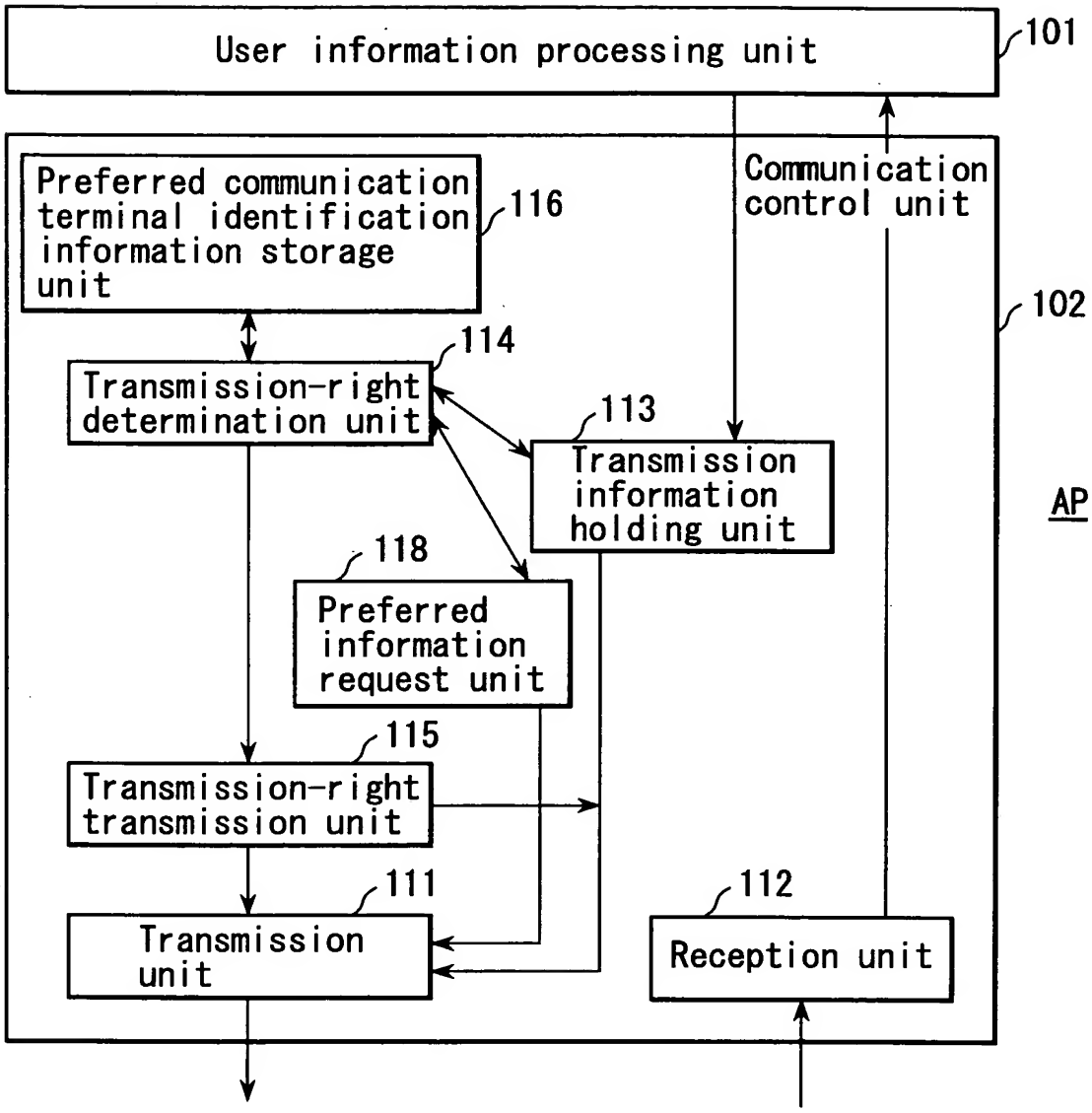
User information processing unit
101
Preferred communication terminal identification information storage unit
116
Communication control unit
102
114
Transmission-right determination unit
113
Transmission information holding unit
AP
118
Preferred information request unit
115
Transmission-right transmission unit
111
Transmission unit
112
Reception unit

FIG. 11